CLAIMS

What is claimed is:

- Reinforcement for cementitious boards comprising an open mesh of high modulus of elasticity fiber strands
 continuously covered by alkali-resistant thermoplastic material.
 - 2. The reinforcement of claim 1 wherein said mesh is heated after formation thereof to fuse said thermoplastic material at areas where said strands intersect.
- 3. The reinforcement of claim 1 wherein said mesh is 10 heated after formation thereof to provide a continuous coating of said thermoplastic material on said strands.
- 4. The reinforcement of claim 1 wherein said thermoplastic material is selected from the group consisting of olefins, ethylene propylene rubber, thermoplastic polyolefin rubber, polyvinylidene chloride, ethylene-propylene diene monomer and copolymers of polybutylene and propylene.
 - 5. The reinforcement of claim 1 wherein said mesh has a strand count of about 2 to about 18 strands per inch in each direction.
- 6. The reinforcement of claim 1 wherein said strands comprise bundled glass fibers having a linear density of about 33 to about 300 tex.
 - 7. The reinforcement of claim 1 wherein said mesh is no greater than about 0.020 inch in thickness.
- 25 8. The reinforcement of claim 3 wherein said thermoplastic material is fibrous.

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- 9. The reinforcement of claim 8 wherein said fibrous thermoplastic material is friction spun on said strands.
- 10. The reinforcement of claim 2 wherein said thermoplastic material is co-extruded with said strands to 5 provide a continuous coating about said strands.
 - 11. A substantially planar cementitious board having first and second opposed faces, said cementitious board comprising:

cementitious matrix material; and

- reinforcement embedded within said cementitious matrix material, said reinforcement comprising an open mesh of high modulus fiber strands continuously coated with alkali-resistant thermoplastic material.
- 12. The cementitious board of claim 11 wherein said 15 reinforcement is disposed about 1/16 to about 1/32 inch beneath at least one of said first and second opposed faces.
 - 13. The cementitious board of claim 12 wherein said board is about 1/4 to about 5/8 inch in thickness.
- 14. A method of making reinforcement for cementitious 20 boards comprising the steps of:
 - (a) covering high modulus of elasticity fiber strands with alkali-resistant thermoplastic material;
 - (b) forming an open mesh from said strands; and
 - (c) heating said mesh.
- 15. The method of claim 14 wherein said heating step comprises sufficiently heating said mesh to fuse said thermoplastic material at areas where said strands intersect.

- 16. The method of claim 14 wherein said heating step comprises sufficiently heating said mesh to provide a continuous coating of said thermoplastic material on said strands.
- 17. The method of claim 14 wherein said mesh is heated 5 after formation thereof to provide a continuous coating of said thermoplastic material on said strands.
- 18. The method of claim 14 wherein said thermoplastic material is selected from the group consisting of olefins, ethylene propylene rubber, thermoplastic polyolefin rubber, 10 polyvinylidene chloride, ethylene-propylene diene monomer and copolymers of polybutylene and propylene.
 - 19. The method of claim 14 wherein said mesh has a strand count of about 2 to about 18 strands per inch in each direction.
- 20. The method of claim 14 wherein said strands comprise bundled glass fibers having a linear density of about 33 to about 300 tex.
 - 21. The method of claim 14 wherein said mesh is no greater than about 0.020 inch in thickness.
- 20 22. The method of claim 15 wherein said thermoplastic material is fibrous.
 - 23. The method of claim 21 wherein said fibrous thermoplastic material is friction spun on said strands.
- 24. The method of claim 14 wherein said thermoplastic 25 material is co-extruded with said strands to provide a continuous coating about said strands.

25. A method of making a reinforced cementitious board having first and second faces, said method comprising the steps of:

selecting reinforcement comprising an open mesh of 5 high modulus of elasticity fiber strands continuously covered with alkali resistant material; and

embedding said open mesh material in cementitious matrix material.

- 26. The method of claim 24 wherein said reinforcement 10 is disposed about 1/16 to about 1/32 inches beneath at least one of said first and second opposed faces.
 - 27. The method of claim 24 wherein said board is about 1/4 to about 5/8 inches in thickness.
- 28. The method of claim 24 wherein said mesh is heated 15 after formation thereof to provide a continuous coating of said thermoplastic material on said strands.
- 29. The method of claim 24 wherein said thermoplastic material is selected from the group consisting of olefins, ethylene propylene rubber, thermoplastic polyolefin rubber, 20 polyvinylidene chloride, ethylene-propylene diene monomer, and copolymers of polybutylene and propylene.
 - 30. The method of claim 24 wherein said mesh has a strand count of about 2 to about 18 strands per inch in each direction.
- 25 31. The method of claim 24 wherein said strands comprise bundled glass fibers having a linear density of about 33 to about 300 tex.

- 32. The method of claim 24 wherein said mesh is no greater than about 0.020 inch in thickness.
- The method of claim 27 wherein said thermoplastic material is fibrous.
- 5 The method of claim 32 wherein said fibrous thermoplastic material is friction spun on said strands.
 - 35. The method of claim 24 wherein said thermoplastic material is co-extruded with said strands to provide a continuous coating about said strands.